

## ABSTRACT OF THE DISCLOSURE

A voltage-controlled oscillator (VCO) enabling proper gain adjustment with a simple configuration. The VCO  
5 includes a first current source for generating a first control current in accordance with the first control voltage and a second current source for generating a second control current in accordance with the second control voltage. A control voltage generation circuit synthesizes the first and  
10 second control currents to generate an oscillation control voltage in accordance with the synthesized current. A ring oscillator generates an oscillation signal with a frequency corresponding to the oscillation control voltage. The first current source varies a changing amount of the first control  
15 current relative to a change in the first control voltage. The second current source varies a changing amount of the second control current relative to a change in the second control voltage.